

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Hironori TAKAHASHI

Application No.: 10/020,982

Filed: December 19, 2001

For: TERAHERTZ WAVE SPECTROMETER



Group Art Unit: 2877

Docket No.: 111453

TECHNOLOGY CENTER 2800

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INFORMATION DISCLOSURE STATEMENTDirector of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of references 3, 4 and 6 is discussed in the present specification.
- ☒ 3. English-language Abstracts of non-English language references 3, 4 and 10 are attached hereto.
- ☒ 4. English-language references 1 and 2, which were submitted with the December 19, 2001 Information Disclosure Statement, correspond to non-English language references 4 and 3, respectively.

Respectfully submitted,

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Date: March 11, 2002

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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 111453		APPLICATION NO. 10/020,982	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Hironori TAKAHASHI		RECEIVED MAR 12 2002 TECHNOLOGY CENTER 280	
				FILING DATE December 19, 2001			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
	1	5,939,721	08/17/1999	Jacobsen et al.			
	2	5,623,145	04/22/1997	Nass			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	3	JP A 8-320254 w/ abstract	12/03/1996	JAPAN			
	4	JP A 10-153547 w/ abstract	06/09/1998	JAPAN			
	5	WO 97/45747	12/04/1997	WIPO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	6	Sakai et al., "Terahertz Electromagnetic Waves: Generation and Applications", <i>Laser Review</i> , Vol. 26, No. 7, pp. 515-521 (1998)					
	7	Hu et al., "Imaging with terahertz waves", <i>OPTICS LETTERS</i> , Vol. 20, No. 16, August 15, 1995, pp. 1716-1719					
	8	Wu et al., "Free-space electro-optics sampling of mid-infrared pulses", <i>Appl. Phys. Lett.</i> , Vol. 71, No. 10, September 8, 1997, pp. 1285-1286					
	9	Zhang et al., "Electro-Optic Imaging of THz Beams", <i>Springer Series in Chemical Physics</i> , Vol. 62, 1996, pp. 54-55					
	10	Copies from "Practical Handbook (2) of Electronic Circuits", (1975), CQ Publications Kabushiki Kaisha, (w/ abstract)					
	11	Yasa et al., "A Rapid-Scanning Autocorrelation Scheme for Continuous Monitoring of Picosecond Laser Pulses", <i>Optics Communications</i> , Vol. 36, No. 5, 1981, pp. 406-408					
	12	Tearney et al., "High-speed phase- and group-delay scanning with a grating-based phase control delay line", <i>OPTICS LETTERS</i> , Vol. 22, No. 23, 1997, pp. 1811-1813					
	13	Copies from "Spectrum Analysis Basics" (1998), Hewlett-Packard, pp. 3-5, 3-6, 3-7, 3-16					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: March 11, 2002